



中国认可
国际互认
检测
TESTING
CNAS L1978

检测报告

TEST REPORT

报告编号:
REPORT NO.: 25202404100

样品名称:
NAME OF SAMPLE: 瓷质砖
PORCELAIN TILE

委托单位:
APPLICANT: 佛山市伟翔陶瓷有限公司
FOSHAN WEIXIANG CERAMICS CO LTD

检测日期:
DATE OF TEST: 22/11/2024 – 04/12/2024 (dd/mm/yy)

国家建筑卫生陶瓷检测重点实验室
STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
佛山海关综合技术中心
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS

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样品名称 Name of sample	瓷质砖 PORCELAIN TILE	名义尺寸 Nominal size (N)	120cm×60cm
表面特性 Nature of the surface	有釉砖 Glazed (GL)	工作尺寸 Work size (Sw)	1200mm×600mm×9.7mm
类别 Group	B I a 类, 磨边砖 Group B I a, rectified tiles	样品描述 Description of Samples	样品完好, 适合测试 The samples are sound, intact and fit for test.
样品标记 Mark of samples	MG12602NG	样品数量 Quantity of samples	30 片 30 Pieces
委托单位 Applicant	佛山市伟翔陶瓷有限公司 FOSHAN WEIXIANG CERAMICS CO LTD	委托单位地址 Address of applicant	佛山市禅城区季华西路68号 中国陶瓷产业总部基地 中区C06栋 Building C06, Central Zone China Ceramics Industry Headquarters Base, No. 68 Jihua West Road, Chancheng District, Foshan City
委托单位电话 Telephone of applicant	18680033006	委托单位传真 Fax of applicant	—
样品来源 Source of Samples	委托单位自送样品 Samples selected by applicant	接样日期 Received on	22/11/2024
检测依据 Test Standard	1. ISO 13006:2018 Ceramic tiles – Definitions, classification, characteristics and marking 2. AS 4586-2013/Amdt 1-2017 Slip resistance classification of new pedestrian surface materials		
检测结论 Conclusion of Test	1. 样品经检测, 所检测项目的检测结果符合 ISO 13006:2018 标准中附录 G 的规定。 The results conform to the requirement of Annex G of standard ISO 13006:2018 with respect to the test items. 2. 防滑性能的检验结果见报告第 7 页。 The test results of Slip resistance see Page 7.		
检测单位盖章 Stamp of Test Unit	 日期: 05/12/2024 Date: (6)	检测单位联系方式 Address of Test Unit	地址: 广东省佛山市禅城区魁奇一路澜石(国际)金属交易中心十八座二楼 Address: 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqi Road, Chancheng District, Foshan, Guangdong, China (528000) 电话 (Tel): 86-757-83960558 86-757-83827991 邮箱 (E-mail): fsiqtc@163.com
声明 Notes	1. 我们已尽所知所能实施上述检测, 不能因签发本报告而免除有关各方根据合同和法律所承担的责任和义务。 All tests are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations. 2. 未经本实验室书面许可, 不得部分复制本报告; This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3. 本报告仅是样品的检测结果。 The results in this report apply to the samples only. 4. 本报告所述的样品信息为委托单位自行声明, 实验室不负责其真实性。 The product information is declared by applicant, and laboratory is not responsible for the authenticity.		

检测 审核 批准
Tested by 杨晓 Inspected by 李洪 Approved by 肖景

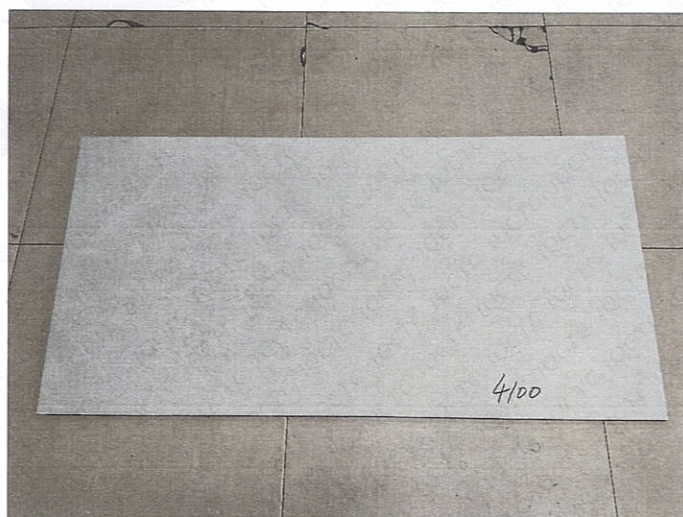
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样品照片
Photo of Samples



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ISO 13006:2018 Ceramic tiles – Definitions, classification, characteristics and marking Annex G Dry-pressed ceramic tiles with low water absorption $E_v \leq 0,5\%$ Group B I a						
条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts	
表 G.1 Table G.1	尺寸和表面质量 Dimensions and surface quality					
	长度 Length 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation,of the average size for each tile from the work size	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.02%	P
				$\pm 1.0\text{mm}$	-0.3mm~-0.2mm	P
	宽度 Width 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation,of the average size for each tile from the work size	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.04%~-0.02%	P
				$\pm 1.0\text{mm}$	-0.2mm~-0.1mm	P
	厚度 Thickness 每块砖厚度的平均值相对于工作尺寸的最大允许偏差 The deviation of the average thickness of each tile from the work size thickness	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 5\%$	-1.1%~+0.2%	P
				$\pm 0.5\text{mm}$	-0.1mm~0	P
	边直度 Straightness of sides 相对于工作尺寸的最大允许偏差 The maximum deviation from straightness related to the corresponding work sizes					
	长度 Length	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	0~+0.01%	P
				$\pm 0.8\text{mm}$	0~+0.1mm	P
	宽度 Width	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.02%~-0.01%	P
				$\pm 0.8\text{mm}$	-0.1mm~0	P
	直角度 Rectangularity 相对于工作尺寸的最大允许偏差 The maximum deviation from Rectangularity related to the corresponding work sizes					
	长度 Length	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.03%~-0.02%	P
				$\pm 1.5\text{mm}$	-0.4mm~-0.2mm	P
	宽度 Width	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	+0.04%~+0.05%	P
				$\pm 1.5\text{mm}$	+0.2mm~+0.3mm	P

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条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements		检测结果 Results	判定 Verdicts
表 G.1 Table G.1	表面平整度: 最大允许偏差 Surface flatness: The maximum deviation from flatness					
	a)对于由工作尺寸计算的对角线的中心 弯曲度 a)centre curvature, related to diagonal calculated from the work size;	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	-0.06%~-0.05%	P
	$\pm 1.8\text{mm}$			-0.8mm~-0.7mm	P	
	b)对于由工作尺寸计算的边弯曲度 b)edge curvature, related to the corresponding work sizes;					
	长度 Length	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	+0.02%	P
				$\pm 1.8\text{mm}$	+0.2mm~+0.3mm	P
	宽度 Width	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	-0.04%~-0.02%	P
				$\pm 1.8\text{mm}$	-0.2mm~-0.1mm	P
	c)对于由于工作尺寸计算的对角线的翘 曲度 c)warpage, related to diagonal calculated from the work size.	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	-0.04%	P
				$\pm 1.8\text{mm}$	-0.6mm~-0.5mm	P
	表面质量 Surface quality	ISO 10545-2:2018	至少有 95%的砖其主要区 域无明显缺陷 A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m.		100%	P
	物理性能 Physical properties					
	吸水率 质量分数 Water absorption Percent mass fraction	ISO 10545-3:2018	$E_v \leq 0.5\%$		0.08%	P
			单个值不大于 0.6% Individual maximum 0.6%		0.07%~0.09%	P
	破坏强度/N Breaking strength, in N	ISO 10545-4:2019	≥ 1300		2380	P
断裂模数/(N/mm ²) Modulus of rupture, in N/mm ² 不适用于破坏强度 $\geq 3000\text{N}$ 的陶瓷砖 Not applicable to tiles with breaking strength $\geq 3000\text{N}$	ISO 10545-4:2019	平均值 ≥ 35 Minimum 35		54.7	P	
		单个值 ≥ 32 Individual minimum 32		52.8~56.5	P	
耐磨性 Abrasion resistance 用于地面的有釉砖的表面耐磨性 Resistance to surface abrasion of glazed tiles intended for use on floors	ISO 10545-7:1996	报告耐磨级别 Report abrasion class		4 级 Class 4	—	
		报告耐磨转数 Report cycles passed		6000	—	
抗冲击: 恢复系数 Impact resistance: Coefficient of restitution (COR)	ISO 10545-5: 1996/Cor.1:1997	报告检测结果 Test method available		0.85	—	

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条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts
表 G.1 Table G.1	线性热膨胀系数: 室温~100℃ Coefficient of linear thermal expansion: from ambient temperature to 100℃	ISO 10545-8:2014	报告检测结果 Test method available	$5.6 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	—
	抗热震性 Thermal shock resistance	ISO 10545-9:2013	报告检测结果 Test method available	样品经试验, 无炸裂或裂纹 Fully resistance	—
	湿膨胀/(mm/m) Moisture expansion, in mm/m	ISO 10545-10:2021	报告检测结果 Test method available	<0.06	—
	抗釉裂性: 有釉砖 Crazing resistance: glazed tiles	ISO 10545-11:1994	应通过此项测试 Required	样品经试验, 无裂纹或剥落 Fully resistance	P
	抗冻性 Frost resistance	ISO 10545-12: 1995/Cor1:1997	应通过此项测试 Required	所有样品无裂纹或破损 Fully resistance	P
	化学性能 Chemical properties				
	耐污染性 Resistance to staining				
	a)轻油中的铬绿 a)Green staining agent in light oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P
	b)轻油中的红色污染物 b)Red staining agent in light oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P
	c)13g/L 碘酒液 c)Iodine, 13g/L solution in alcohol	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P
	d)橄榄油 d)Olive oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P
	耐化学腐蚀性 Resistance to chemicals				
	耐家庭化学试剂和游泳池盐类 Resistance to household chemicals and swimming pool salts				
	a)家庭化学试剂: 氯化铵溶液, 100g/L a)Household chemicals: Ammonium chloride, 100g/L	ISO 10545-13:2016	不低于 B Minimum B	A	P
	b)游泳池盐类: 次氯酸钠溶液, 20mg/L b)Swimming pool salts: Sodium hypochlorite solution, 20mg/L	ISO 10545-13:2016	不低于 B Minimum B	A	P
	耐低浓度酸和碱 Resistance to low concentrations of acids and alkalis				
	a)3%盐酸溶液(v/v) a)Hydrochloric acid solution, 3% (v/v)	ISO 10545-13:2016	制造商应声明等级 Manufacturer to state classification	LA	—
	b)柠檬酸溶液, 100g/L b)Citric acid solution, 100g/L	ISO 10545-13:2016	制造商应声明等级 Manufacturer to state classification	LA	—
	c)氢氧化钾溶液, 30g/L c)Potassium hydroxide, 30g/L	ISO 10545-13:2016	制造商应声明等级 Manufacturer to state classification	LA	—

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条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts
表 G.1 Table G.1	耐高浓度酸和碱 Resistance to high concentrations of acids and alkalis				
	a) 18% 盐酸溶液 (v/v) a) Hydrochloric acid solution, 18% (v/v)	ISO 10545-13:2016	报告检测结果 Test method available	HA	
	b) 5% 乳酸溶液 (v/v) b) Lactic acid, 5% (v/v)	ISO 10545-13:2016	报告检测结果 Test method available	HA	
	c) 氢氧化钾溶液, 100g/L c) Potassium hydroxide, 100g/L	ISO 10545-13:2016	报告检测结果 Test method available	HA	—
	铅镉溶出量 Lead and Cadmium release				
	a) 铅溶出量/(mg/dm ²) a) Lead release, in mg/dm ²	ISO 10545-15:2021	报告检测结果 Test method available	<0.02	—
	b) 镉溶出量/(mg/dm ²) b) Cadmium release, in mg/dm ²	ISO 10545-15:2021	报告检测结果 Test method available	<0.003	—

AS 4586-2013/Amdt 1-2017 Slip resistance classification of new pedestrian surface materials		
检验项目 Test Item	检验方法 Test Method	检验结果 Test Result
防滑性能, 摆锤法, 湿法, Slider 96 Slip resistance, Wet pendulum test method, Slider 96	AS 4586-2013/Amdt 1-2017 Appendix A 附录 A	SRV: 49 类别 Class: P4

用语说明 Possible test case verdicts

1. P(ass): 合格 Test item does meet the requirement.
2. F(ail): 不合格 Test item does not meet the requirement.
3. —: 未进行判定 Verdict was not carried out.
4. N/A: 不适用 Test case does not apply to the test item.

*** **

报告结束 End of Test Report